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FILE 'HOME' ENTERED AT 11:31:07 ON 10 NOV 2008

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 11:31:21 ON 10 NOV 2008

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FILE COVERS 1907 - 10 Nov 2008 VOL 149 ISS 20

FILE LAST UPDATED: 9 Nov 2008 (20081109/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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<http://www.cas.org/legal/infopolicy.html>

=> s oxidation catalyst

492084 OXIDATION

820579 CATALYST

L1 1983 OXIDATION CATALYST

(OXIDATION(W)CATALYST)

=> s l1 and tungsten

210737 TUNGSTEN

L2 58 L1 AND TUNGSTEN

=> s l2 and phosphoric acid

114184 PHOSPHORIC

4705251 ACID

104787 PHOSPHORIC ACID

(PHOSPHORIC(W)ACID)

L3 1 L2 AND PHOSPHORIC ACID

=> d bib abs

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1987:578602 CAPLUS
 DN 107:178602
 OREF 107:28659a,28662a
 TI Olefin oxidation catalyst system
 IN Vasilevskis, Janis; De Deken, Jacques C.; Saxton, Robert J.; Wentrcek, Paul R.; Fellmann, Jere D.; Kipnis, Lyubov S.
 PA Catalytica Associates, USA
 SO PCT Int. Appl., 96 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8701615	A1	19870326	WO 1986-US1950	19860918
	W: AU, BR, DK, FI, JP, KR, NO				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	US 4720474	A	19880119	US 1985-779501	19850924
	US 4723041	A	19880202	US 1986-846554	19860331
	IN 168521	A1	19910420	IN 1986-CA651	19860828
	ZA 8606653	A	19870729	ZA 1986-6653	19860902
	AU 8663752	A	19870407	AU 1986-63752	19860918
	EP 238633	A1	19870930	EP 1986-906113	19860918
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	BR 8606883	A	19871103	BR 1986-6883	19860918
	JP 63500923	T	19880407	JP 1986-504984	19860918
	IL 80091	A	19910630	IL 1986-80091	19860919
	CN 86106266	A	19870408	CN 1986-106266	19860923
	CN 1010010	B	19901017		
	CA 1268166	A1	19900424	CA 1986-518817	19860923
	CN 1046890	A	19901114	CN 1990-104249	19860923
	DK 8702623	A	19870522	DK 1987-2623	19870522
	FI 8702275	A	19870522	FI 1987-2275	19870522
	NO 8702167	A	19870715	NO 1987-2167	19870522
	US 4853357	A	19890801	US 1987-103442	19870930
PRAI	US 1985-779501	A	19850924		
	WO 1986-US1950	A	19860918		

OS CASREACT 107:178602

AB Olefins are oxidized to carbonyl compds. in the presence of O and a catalyst system comprising a polyoxoanion and [XxMaM'bM''cOz]-m (M, M', M'' = W, Mo, V, Nb, Ta, Re; X = B, Si, Ge, P, As, Se, Te, I, Co, Mn, Cu; a, m, z = >0; b, c = integer; x = 0 for isopolyoxoanions, >0 for heteropolyoxoanions; such that a + b + c ≥ 2), ≥1 Pd component, ≥1 redox-active metal selected from CuSO₄, Cu(OAc)₂, Cu(NO₃)₂, Fe(OAc)₂, FeSO₄, and MnSO₄, and a ligand. Thus, 73.2 g NaVO₃ was dissolved in 380 mL H₂O which had been heated to 90° forming a first solution, which was added to a 90° solution consisting of 120 mL H₂O and 80.7 g Na₂MoO₄·2H₂O. To this mixture, 50 mL of 85% H₃PO₄ was added dropwise, the solution heated to 95° for 1 h, filtered through Celite, .apprx.80 g K₂SO₄ was added to the filtrate which had been cooled to room temperature, the solution stirred for 1-1 1/2 h, and the K₉PMo₆V₆O₄₀ precipitate (I) was recrystd. from 0.25 M H₂SO₄. Li₉PMo₆V₆O₄₀ was prepared from I by ion-exchange chromatog., and served as the source for PMo₆V₆O₄₀-9 (II). 1-Hexene was oxidized in the presence of 15 mL H₂O, 1.5 mL 1 normal H₂SO₄, 625 mg II, and a 1:5:10 molar ratio of Pd(CS₃CO₂)₂-II-CuSO₄·2H₂O. The oxidation was accomplished at 85°/80 psig O₂ for 8 h producing 73.7 mol% 1-hexene conversion with 95.0 mol% selectivity to 2-hexanone, vs. 53.7 mol% and 90.8 mol% resp., for a control oxidation conducted without CuSO₄.

```
=> s 12 and hydrogen sulfate salt
    1096189 HYDROGEN
    570848 SULFATE
    865530 SALT
      52 HYDROGEN SULFATE SALT
        (HYDROGEN(W) SULFATE(W) SALT)
L4      0 L2 AND HYDROGEN SULFATE SALT
```

```
=> s 12 and quaternary ammonium salt
    143300 QUATERNARY
    433282 AMMONIUM
    865530 SALT
      10362 QUATERNARY AMMONIUM SALT
        (QUATERNARY(W) AMMONIUM(W) SALT)
L5      0 L2 AND QUATERNARY AMMONIUM SALT
```

```
=> s 12 and boric acid
    46238 BORIC
    4705251 ACID
    43251 BORIC ACID
      (BORIC(W) ACID)
L6      1 L2 AND BORIC ACID
```

```
=> d bib abs
```

```
L6  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
AN  2000:351422  CAPLUS
DN  132:349279
TI  Oxidation catalyst and process for producing oxole
    compound with the same
IN  Ito, Masumi; Sueyoshi, Tsuyoshi; Nakajima, Yasuko; Koyasu, Yukio
PA  Mitsubishi Chemical Corporation, Japan
SO  PCT Int. Appl., 23 pp.
    CODEN: PIXXD2
DT  Patent
LA  Japanese
FAN.CNT 1
PATENT NO.      KIND      DATE      APPLICATION NO.      DATE
-----
PI  WO 2000029104      A1      20000525      WO 1999-JP6362      19991115
    W: CA, CN, IN, KR, SG, US
    RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
    PT, SE
    JP 2000210562      A      20000802      JP 1999-323671      19991115
PRAI JP 1998-324732      A      19981116
AB  Alkadienes are oxidized to oxoles in the presence of catalysts, WxA1-xOy,
    wherein A represents ≥1 element selected from alkali metals, Cr,
    Mo, Group 13 elements, and Group 15 elements other than Sb; 0 < x < 1; and
    y ≠ 0, determined by the oxidation states of the other elements. Thus,
    1,3-butadiene (I) was oxidized at 438° and 1500 h-1 over
    W0.75B0.25Ox to prepare furan at 38% selectivity at I conversion 4.5%.
RE.CNT 12  THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
    ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

```
=> s multicomponent oxidation catalyst
    42232 MULTICOMPONENT
    492084 OXIDATION
    820579 CATALYST
L7      0 MULTICOMPONENT OXIDATION CATALYST
        (MULTICOMPONENT(W) OXIDATION(W) CATALYST)
```

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---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	43.10	43.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

STN INTERNATIONAL LOGOFF AT 11:35:48 ON 10 NOV 2008